Top 20 Chemicals with Largest TRI On-site and Off-site Disposal or Other Releases, 2002: Primary Metals (SIC 33)

		•	·	•	•	On-site D	isposal or Oth	er Releases							Total On-site
	On-site Dis		s I Undergrour	nd Injection	Other On-site Disposal or Other Releases										and Off-site
		RCRA											Total On-site	Total Off-site	Disposal or
CAS		Subtitle C	Other On-		Fugitive Air	Point Source S	Surface Water	Class II-V	Land	Surface	Other Land		Disposal or		Other
Number Chemical	Class I Wells			Subtotal			Discharges	Wells			Disposal	Subtotal Other Releases		Other Releases	Releases
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
Zinc compounds	1,205	563,674	13,903,046	14,467,925	1,183,529	1,610,827	143,010	130,000	5	5,779,122	32,234,287	41,080,781	55,548,706	167,583,194	223,131,900
Copper compounds	111,843	5,681	726,395	843,919	117,999	212,412	16,697	650,000	5	12,033,417	187,890,700	200,921,230	201,765,149		206,132,433
Manganese compounds	4,300	201,061	10,508,144	10,713,505	559,000	385,383	271,265	1,300,000	5	3,932,197	61,255,340	67,703,189	78,416,694	28,820,682	107,237,376
 Nitrate compounds 	0	0	0	0	682	1,953	39,113,744	0	0	1,212,000	7,816	40,336,195	40,336,195	259,590	40,595,786
Lead compounds	2,213	121,947	1,428,698	1,552,858	135,961	299,054	12,127	88	230	3,857,574	8,587,662	12,892,697	14,445,555	11,627,320	26,072,875
7429-90-5 Aluminum (fume or dust)	5	0	5,675,804	5,675,809	162,171	799,475	11,459	0	0	0	3,852,844	4,825,949	10,501,758	6,161,156	16,662,914
7782-50-5 Chlorine	0	0	0	0	158,604	13,874,237	3,909	0	0	0	305	14,037,055	14,037,055	206	14,037,261
7440-66-6 Zinc (fume or dust)	0	0	1,776	1,776	138,289	240,554	4,785	0	0	0	250	383,878	385,654	11,202,382	11,588,036
Chromium compounds	4,300	608,860	1,866,008	2,479,168	30,114	95,043	58,677	0	135	599,353	1,151,076	1,934,398	4,413,566	6,000,161	10,413,726
Nickel compounds	39,085	78,790	430,900	548,775	15,893	56,748	15,706	100,000	5	1,069,521	6,001,606	7,259,478	7,808,253	2,382,254	10,190,507
7439-92-1 Lead	0	254,715	5,596,173	5,850,888	34,680	76,641	5,510	0	917	153	611	118,511	5,969,400	1,833,698	7,803,098
Arsenic compounds	71,047	6,661	25,227	102,935	8,593	16,758	1,569	2,700	0	2,800,250	3,706,574	6,536,444	6,639,379	145,629	6,785,008
7647-01-0 Hydrochloric acid	0	0	0	0	578,556	6,156,904	125	0	0	0	0	6,735,585	6,735,585	16,364	6,751,949
7439-96-5 Manganese	0	5	2,185,261	2,185,266	140,113	163,830	40,443	0	2,562	250	200	347,398	2,532,664	4,191,286	6,723,949
7664-41-7 Ammonia	370,000	0	0	370,000	2,582,543	2,256,353	311,749	0	0	455,000	3,700	5,609,345	5,979,345	39,520	6,018,865
7664-39-3 Hydrogen fluoride	0	0	0	0	1,975,539	1,150,811	10,271	0	0	1,785,822	0	4,922,443	4,922,443	34,457	4,956,900
463-58-1 Carbonyl sulfide	0	0	0	0	115,547	4,367,376	0	0	0	0	0	4,482,923	4,482,923	0	4,482,923
7440-50-8 Copper	10	305,274	172,091	477,375	137,143	194,724	11,731	0	250	1,918	492	346,257	823,632	1,999,685	2,823,317
7632-00-0 Sodium nitrite	0	0	0	0	1,977	18,509	1,887,352	0	0	0	0	1,907,838	1,907,838	60,560	1,968,398
Vanadium compounds	0	0	241,522	241,522	3,055	22,100	174,761	0	0	1,289,500	0	1,489,416	1,730,938	157,169	1,888,108

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data document at www.epa.gov/tri/tridata/index.htm#pdr.

On-site Disposal or Other Releases include Underground Injection to Class I Wells (Section 5.4.1), RCRA Subtitle C Landfills (5.5.1A), Other Landfills (5.5.1B), Fugitive or Non-point Air Emissions (5.1), Stack or Point Air Emissions (5.2), Surface Water Discharges (5.3), Class II-V Wells (5.4.2), Land Treatment (5.5.2), Surface Impoundments (5.5.3) and Other Landfills (M64, M72), Storage Only (M10), Solidification/Stabilization - Metals and Metal Category Compounds only (M41 or M40), Wats the Category Compounds only (M41 or M40), Wats the Category Compounds only (M41 or M40), Wats the Category Compounds only (M42), And Treatment (M73), Other Land Disposal (M79), Other Offsite Management (M90), Transfers to Waste Broker - Disposal (M94, M91), and Unknown (M99) and, from Section 6.1 Transfers to POTWs (metals and metal category compounds only).

Does not include Off-site Disposal or Other Releases transferred to other TRI facilities that reported the amounts as on-site disposal or other releases.

Facilities/forms are included in the manufacturing industry categories (SIC Codes 20-39) if they did not report a SIC code in the other industries. Forms that reported more than one 2-digit SIC code within the range 20 to 39 are assigned to the "multiple codes" category. Facilities/forms are included in the other industry categories if the facility/form has a SIC code in the other industries and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form is include in the manufacturing industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of manufacturing and other industry category. Forms with no 2-digit SIC code are included in the "no codes" category. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2002 and previous years have been included in SIC code 10 for the purpose of this analysis.